



DEX QM GEAR 320

Industrial Gear Lubricant

DEX QM GEAR 320 is an ultra-high performance industrial gear oil suitable for wind turbines, heavy loaded closed gear boxes and circulation systems operating under extreme conditions and high temperatures.

Main applications



Performance, Features & Benefits

DEX QM GEAR 320 is a specially formulated hydrocracked mineral blend of base oils combined with a unique quantum mechanical enrichment process designed to improve performance in the following ways.

- ✚ Outstanding load carrying capability.
- ✚ Excellent low temperature properties.
- ✚ Effective lubrication over a wide temperature range.
- ✚ Superior thermo- and oxidation stability.
- ✚ Long service intervals.
- ✚ Excellent protection against rust, wear and foaming.
- ✚ Very high demulsibility.
- ✚ Excellent corrosion and micro pitting protection.

Technical Data Sheet

Specifications, approvals and recommendations

DEX QM GEAR 320 exceeds the following performance criteria:

DIN 51517-3 CLP

AGMA 9005-F16 Anti-scuff

ISO 12925-1 CKC

Cincinnati Milacron P-74

David-Brown S1.53.106

Siemens MD (Flender)

US Steel 224

Typical Analysis*

Properties		Unit	Method	Typical Value
ISO VG (viscosity class)			ISO 3448	320
Density		Kg/m ³	ASTM-1298-12b	857
Kinematic Viscosity	@40°C	mm ² /s	ASTM D4052	344,2
Kinematic Viscosity	@100°C	mm ² /s	ASTM D7042	41,9
Viscosity Index			ASTM D2270	177
Flash Point COC, min		°C	ASTM D92	> 220
Pour Point		°C	ASTM D7346	-33
FZG Fail Load Stage, min			DIN 51534-2	> 14
Total Base Number	TBN	mgKOH/g	ASTM D664	< 0.5

These characteristics are typical of current production. Whilst future production will conform to DEX's specification, variations in these characteristics may occur.